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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/828,703

04/21/2004

Edward Wells Knowlton

KNW-0019

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7590

06/09/2009

Goodwin Procter LLP

Attn: Patent Administrator

135 Commonwealth Drive

Menlo Park, CA 94025-1105

EXAMINER

ROANE, AARON F

ART UNIT

PAPER NUMBER

3769

MAIL DATE

DELIVERY MODE

06/09/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/828,703	<b>Applicant(s)</b> KNOWLTON, EDWARD WELLS	
	<b>Examiner</b> Aaron Roane	<b>Art Unit</b> 3769	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 12 March 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-3,5 and 7-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3,5 and 7-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 February 2008 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

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***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/12/2009 has been entered.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 7-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Knowlton (USPN 6,350,276).

Regarding claims 1, 7 and 15, Knowlton discloses a method of treating a target tissue site, the method comprising: using an energy delivery device to apply a combination of electromagnetic energy treatments delivered to different tissue depths; identifying/selecting the tissue site based on a tissue profile or condition/deformity of the

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tissue site (col. 2, lines 19-46, col. 12, line 50-67, col. 13, 35-47 and col. 14, lines 19-54); delivering energy to the tissue site at a first depth to achieve a first tissue effect using an energy delivery device, wherein the first tissue effect is a two dimensional tightening of the skin surface (col. 2, line 20 through col. 3, line 28); delivering energy to the tissue site at a second depth to achieve a second tissue effect using an energy delivery device, wherein the second tissue effect is a three dimensional tissue repositioning or inward contouring (col. 2, line 20 through col. 3, line 28); and remodeling at least a portion of tissue at the tissue site (col. 2, lines 19-46, col. 8, lines 11-30 and claim 1). One energy deliver is radio frequency (RF a type of electromagnetic energy) which delivers energy to at least a first or second depth, see col. 6, lines 5-48 and col. 7, line 52 through col. 8, line 30 and col. 13, line 18 through col. 21, line 14, **and finally and in particular col. 15:25-60 wherein the combination of electromagnetic treatment effects is made explicit.**

Regarding claims 2 and 16, Knowlton further discloses the tissue site is selected based on an amount of convexity at the tissue site or an image of the tissue site, see col. 12, lines 1-3.

Regarding claims 3, 8, 17 and 18, Knowlton disclose the claimed invention, see col. 6, lines 5-48, col. 7 and 8.

Regarding claim 9, Knowlton further discloses delivering a pattern of energy applications to the tissue site using the energy delivery device; and producing a plurality of thermal

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adhesions or lesions wherein the plurality of adhesions or lesions is substantially continuous or at least partially overlapping, see col. 16, lines 54-67.

Regarding claim 10, Knowlton discloses delivering a vectored force to the tissue site, see col. 8, lines 11-30.

Regarding claim 11, Knowlton further discloses cooling a layer of tissue or a surface layer of tissue of at least a portion of the tissue site, see col. 4, line 55 through col. 5, line 15.

Regarding claim 12, Knowlton further discloses producing a reverse thermal gradient within at least a portion of the tissue site, see col. 5, lines 52-59.

Regarding claim 13, Knowlton discloses producing a reverse thermal gradient within at least a portion of the tissue site, see col. 10, lines 1-3.

Regarding claim 14, Knowlton further disclose substantially preserving at least a portion of a surface, a tissue layer or an epidermal layer at or adjacent the tissue site, see entire disclosure, particularly col. 2, 8 and 14.

Regarding claim 19, Knowlton further disclose controlling at least one of dose or the depth of energy delivery responsive to the identified deformity, see col. 7, line 31-51.

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Regarding claim 20, Knowlton further disclose the dose or depth or depth of energy delivery is controlled by at least one of the selection of electrode size, power, pre-cooling period, cooling period, or energy delivery time, see col. 7, line 31-51.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Knowlton (USPN 6,350,276) (Knowlton I) as applied to claim 1 above, and further in view of Knowlton (USPN 6,377,854) (Knowlton II).

Regarding claim 5, Knowlton I discloses the claimed invention except for the contraction of fibrous septae. Knowlton II discloses a RF treatment device and teaches that the RF treatment device applies energy to soft tissue in order to “contract collagen in fibrous septae in subcutaneous fat layers underlying the skin surface so as to modify a structure of the underlying tissue such that soft tissues in the subcutaneous fat layers are tightened and fat is reduced in lipocytes in the subcutaneous fat layers,” see claim 1. Therefore at the time of the invention it would have been obvious to one of ordinary skill in the art to

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modify the invention of Knowlton I, as taught by Knowlton II, to “contract collagen in fibrous septae in subcutaneous fat layers underlying the skin surface so as to modify a structure of the underlying tissue such that soft tissues in the subcutaneous fat layers are tightened and fat is reduced in lipocytes in the subcutaneous fat layers.”

### ***Response to Arguments***

Applicant's arguments filed 1/13/2009 have been fully considered but they are not persuasive. The examiner will address each argument/remark in turn.

Applicant should note the double patenting rejections have been withdrawn due to Applicant's amendments to the claims.

It should be pointed out that Applicant only amended claim 1 and the claims that depend on claim 1, while claim 15 and the claims that depend on claim 15 have not been amended at all. Therefore, Applicant's arguments/remarks are only directed to claim 1 and the claims that depend on claim 1.

Applicant asserts on page 7 first full paragraph “the currently amended claim 1 overcomes the Examiner's argument that the mechanical force or thermal energy disclosed in Knowlton I reads on the instantly claimed combination of energy treatments. Accordingly, based on the arguments above and those made previously in the Responses filed July 25, 2008 and February 13, 2008, Applicant submits that the instant claims are not anticipated by Knowlton I. Thus, Applicant respectfully requests the withdrawal of the present rejection.” It can be seen

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from col. 15:25-60 of Knowlton I that the combination of electromagnetic treatment effects at different depths is made explicit.

The present rejection no longer relies on the other forms of energy delivery to reject to presently claimed invention, but instead makes explicit the different tissue effects at different depths provided for by electromagnetic energy.

**Due to the RCE and the new grounds of rejection this action is non final.**

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron Roane whose telephone number is (571) 272-4771. The examiner can normally be reached on Monday-Thursday 8:30AM-7PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Johnson can be reached on (571) 272-4768. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aaron Roane/  
Examiner, Art Unit 3769

/Ahmed M Farah/  
Primary Examiner, Art Unit 3769